



Title V Operating Permit

Permit No.: **TV-OP-034**

Date Issued: **December 14, 2000**

This certifies that:

Troy Mills Incorporated
30 Monadnock Street
Troy, NH 03465

has been granted a Title V Operating Permit for the following facility and location:

Troy Mills Incorporated
30 Monadnock Street
Troy, NH 03465
AFS Point Source No. – 3300500016

This Title V Operating Permit is hereby issued under the terms and conditions specified in the Title V Operating Permit Application filed with the New Hampshire Department of Environmental Services on **June 25, 1996** and additional information on **June 22** and **July 21, 2000** under signature of the following responsible official certifying to the best of their knowledge that the statements and information therein are true, accurate and complete.

Responsible Official:

James Barker
VP - Operations
(603) 242-7711

Technical Contact:

Michael L. Chrostowski
Engineering Manager
(603) 242-6822

This Permit is issued by the New Hampshire Department of Environmental Services, Air Resources Division pursuant to its authority under New Hampshire RSA-125-C and in accordance with the provisions of Code of the Federal Regulations 40 CFR 70.

This Title V Operating Permit shall expire on **December 14, 2005**

SEE ATTACHED SHEETS FOR ADDITIONAL PERMIT CONDITIONS

For the New Hampshire Department of Environmental Services, Air Resources Division

Director, Air Resources Division

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ABBREVIATIONS

AAL	Ambient Air Limit
AP-42	Compilation of Air Pollutant Emission Factors
ARD	Air Resources Division
ASTM	American Society for Testing and Materials
BACT	Best Available Control Technology
BHP	Break Horse Power
BTU	British Thermal Units
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CAS	Chemical Abstract Service
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CNG	Compressed Natural Gas
CO	Carbon monoxide
CO ₂	Carbon dioxide
COMS	Continuous Opacity Monitoring System
DER	Discrete Emission Reduction
Env-A	New Hampshire Code of Administrative Rules - Air Resources Division
Env-Wm	New Hampshire Code of Administrative Rules – Waste Management Division
ECS	Emission Control System
ERC	Emission Reduction Credit
FR	Federal Register
HAP	Hazardous Air Pollutant
HCl	Hydrochloric Acid
Hr	Hour
kGal	1,000 gallons
LAER	Lowest Achievable Emission Rate
Lb/hr	Pounds per hour
LNB	Low NO _x Burner
LNG	Liquid Natural Gas
LPG	Liquid Petroleum Gas (Propane)
MACT	Maximum Available Control Technology
mg/L	Milligrams per liter (ppm)
MMBTU	Million British Thermal Units
MMCF	Million Cubic Feet
NAAQS	National Ambient Air Quality Standard
NCCEM	Non-certified Continuous Emissions Monitoring System
NESHAPS	National Emissions Standards for Hazardous Air Pollutants

ABBREVIATIONS (cont.)

NG	Natural gas
NHDES (or DES)	New Hampshire Department of Environmental Services
NO _x	Oxides of Nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PE	Potential Emission
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns diameter
ppm	part per million
ppmv	part per million by volume
ppmdv	part per million dry volume
PSD	Prevention of Significant Deterioration
PSI	Pounds per Square Inch
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RTAP	Regulated Toxic Air Pollutant
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
T-12M	Tons during any consecutive 12-month period
TAP	Toxic Air Pollutant
TSP	Total Suspended Particulate Matter
TPY	Tons per Year
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

Facility Specific Title V Operating Permit Conditions

I. Facility Description of Operations

Troy Mills, Inc. (Permittee) manufactures coated non-woven fabric products in Troy, New Hampshire. The primary source of air pollutant emissions at the facility are from fuel-burning devices which produce criteria pollutant emissions, and coating operations which produce Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) emissions.

II. Permitted Activities

In accordance with all of the applicable requirements identified in this permit, the Permittee is authorized to operate the devices and or processes identified in Sections III, IV, V, and VI within the terms and conditions specified in this Permit.

III. Significant Activities Identification

A. Emission Unit Identification

The activities identified in the following table are subject to and regulated by this Title V Operating Permit:

Table 1 – Significant Activity Identification			
Emission Unit Number (EU#)	Description of Emission Unit	Emissions Unit Maximum Design Capacity	Exhaust Stack Identification
EU01	Boiler #1, Cleaver Brooks 600 HP Boiler, model series # CB-600	A maximum design firing rate of 25.1 MMBTU/hr gross heat input, with a maximum consumption of 167.33 gallons per hour of #6 fuel oil having a maximum sulfur content of 2% by weight or #6 fuel oil/specification used oil ¹ mixture with a maximum sulfur content of 2% by weight; and combined consumption for EU01 (Cleaver Brooks Boiler #1) and EU02 (Cleaver Brooks Boiler #2) to 566,000 gallons of #6 fuel oil or #6 fuel oil/specification used oil mixture during any consecutive 12-month period. ²	Stack #1
EU02 ³	Boiler #2, Cleaver Brooks 250 HP Boiler, model series # CB-655-350	A maximum design firing rate of 14.6 MMBTU/hr gross heat input, with a maximum consumption of 97.33 gallons per hour of #6 fuel oil having a maximum sulfur content of 2% by weight or #6 fuel oil/specification used oil ¹ mixture with a maximum sulfur content of 2% by weight, a consumption of 20,700 gallons during any consecutive 30-day period and 248,407 gallons during any consecutive 12-month period.	Stack #1

¹ Specification used oil shall be defined in accordance with Env-Wm 110.01(b) and shall meet the standards set forth in Env-Wm 807.02.

² The combined annual fuel limitation is necessary to comply with the 24-hour and annual National Ambient Air Quality Standards for sulfur dioxide.

³ This boiler was originally installed in May 1967 at Velcro Manufacturing in Manchester, New Hampshire. It was subsequently sold to and installed at Troy Mills in June 1990.

Table 1 – Significant Activity Identification

Emission Unit Number (EU#)	Description of Emission Unit	Emissions Unit Maximum Design Capacity	Exhaust Stack Identification
EU03	Dryer #3 Dudley, Garland & Jensen	A maximum design heat input of 3.0 MMBTU/hr; Liquid Petroleum Gas (LPG) with a limit of 30.0 gallons/hr having a heating value of 94,000 BTU/gallon, and 100,000 gallons LP gas per consecutive 12-month period.	Stack #2
EU04	Dryer #2 Dudley, Garland & Jensen	A maximum design heat input of 3.0 MMBTU/hr; LPG with a limit of 31.91 gallons/hr having a heating value of 94,000 BTU/gallon, and 209,680 gallons LPG per consecutive 12-month period.	Stack #3
EU05	Dryer #4 Dudley, Garland & Jensen Serial Number M789	A maximum design heat input of 4.8 MMBTU/hr (1.2 MMBTU/hr for each of 4 burners); LPG with a limit of 51.08 gallons/hr having a heating value of 94,000 BTU/gallon, and 335,489 gallons LPG per consecutive 12-month period for each dryer burner.	Stack #4 Stack #5 Stack #6
EU06	Spray Booth associated with EU05	When in operation, shall meet the requirements specified in section VI. of this permit.	Stack #7
EU07	Dryer G16 (#5) Fleissner GMBH & Co.	A maximum design heat input of 1.2 MMBTU/hr; LPG with a limit of 12.77 gallons/hr having a heating value of 94,000 BTU/gallon, and 83,870 gallons LPG per consecutive 12-month period.	Stack #8 Stack #9
EU08	Dryer G18 (#6) Fleissner GMBH & Co. Serial Number T5735	A maximum design heat input of 1.2 MMBTU/hr; Liquid Petroleum Gas (LPG) with a limit of 12.77 gallons/hr having a heating value of 94,000 BTU/gallon, and 83,870 gallons LPG per consecutive 12-month period.	Stack #10 Stack #11

B. Stack Criteria

The stacks list in Table 2 for the above listed significant devices at this facility shall meet the following criteria in accordance with the state-only modeling requirements specified in Env-A 1400 and NAAQS:

Table 2 – Stack Criteria

Stack #	Emission Unit #	Minimum Stack Height (Feet) Above Ground Level	Maximum Stack Diameter or Dimensions (Feet)	Exhaust Vent Direction/ Configuration	Minimum Stack Flow Rate (ACFM)	Minimum Stack Temperature (°F)
Stack #1	EU01 & EU02	149.0	9.15	Vertical	11,126	160
Stack #2	EU03	137.0	2.0	Vertical	50,000	145
Stack #3	EU04	72.0	2.0	Vertical	9,000	275

Table 2 – Stack Criteria

Stack #	Emission Unit #	Minimum Stack Height (Feet) Above Ground Level	Maximum Stack Diameter or Dimensions (Feet)	Exhaust Vent Direction/ Configuration	Minimum Stack Flow Rate (ACFM)	Minimum Stack Temperature (°F)
Stack #4	EU05	32.2	1.2	Horizontal	3,700	180
Stack #5		32.2	1.2	Horizontal	3,200	300
Stack #6		32.2	1.2	Horizontal	3,200	285
Stack #7	EU06	23.0	2.0	Horizontal	9,000	70
Stack #8	EU07	26.6	1.3	Vertical	2,800	85
Stack #9		27.6	1.3	Horizontal	5,200	275
Stack #10	EU08	20.0	2.0	Vertical	4,700	85
Stack #11		34.0	1.5	Vertical	3,300	275

Preauthorized changes to the state-only requirements⁴ pertaining to stack parameters set forth in this permit shall be permitted only when an air-quality impact analysis, which meets the criteria of Env-A 606, is performed either by the facility or the DES (if requested by facility in writing) in accordance with the "DES Policy and Procedure for Air Quality Impact Modeling". All air modeling data shall be kept on file at the facility for review by the DES upon request.

IV. Insignificant Activities Identification

All activities at this facility that meet the criteria identified in Env-A 609.03(g) shall be considered insignificant activities. Emissions from the insignificant activities shall be included in the total facility emissions for the emission-based fee calculation described in Section XXIII of this Permit.

V. Exempt Activities Identification

All activities identified in Env-A 609.03(c) shall be considered exempt activities and shall not be subject to or regulated by this Permit. Emissions from exempt activities shall not be included in the total facility emissions for the emission based fee calculation described in Section XXIII. of this Permit.

VI. Pollution Control Equipment/Technique Identification

The spray booth (EU06) operates with a dry filter pad system for atomized paint removal and is referred to as Pollution Control Equipment 1 (PCE01) in this Permit. EU06 (spray booth) shall at all times be operated with a filter in place to trap atomized paint. PCE01 shall operate with a minimum collection efficiency of 95%.

All equipment, techniques, facilities and systems installed and used to achieve compliance with the terms and conditions of this Permit shall at all times be maintained in good working order and shall be

⁴ The term "state-only requirement" is used to refer to those requirements that are not federally enforceable but are state requirements as defined in Env-A 101.259.

operated in accordance with the minimum efficiencies stipulated in this section, where applicable, and/or in accordance with manufacturers specifications, whichever is more stringent, so as to minimize air pollutant emissions. Manufacturer's recommended maintenance schedules and specifications shall be kept on file for review by the DES and/or EPA upon request.

VII. Alternative Operating Scenarios

No alternative operating scenarios were identified for this Permit.

VIII. Applicable Requirements

A. State-only Enforceable Operational and Emissions Limitations

The Permittee shall be subject to the state-only operational and emission limitations identified in Table 3 below:

Table 3 – State-only Enforceable Operational and Emissions Limitations			
Item #	Applicable Requirements	Applicable Emission Units	Regulatory Cite
1.	New or modified devices, new or modified area sources, and existing devices or area sources for which new applications for permits are filed that have the potential to emit, in any amount, substances that meet the criteria of Env-A1301 shall be subject to Env-A 1300, until such time as the Env-A 1400 requirements supersede the Env-A 1300 requirements. (As outlined below)	Facility Wide	Env-A 1305.01(a)
2.	Air quality impact analysis of devices and area sources emitting substances meeting the criteria of Env-A 1301 shall be performed in accordance with the "DES Policy and Procedure for Air Quality Impact Modeling" or other comparable dispersion modeling methods approved by EPA.	Facility Wide	Env-A 1305.02
3.	In accordance with Env-A 1403.01, new or modified devices or processes installed after May 8, 1998, shall be subject to the requirements of Env-A 1400.	Facility Wide	Env-A 1403.01
4.	In accordance with 1403.02(a), all existing unmodified devices or processes which are in operation during the transition period ending three years from May 8, 1998 (May 8, 2001), shall comply with either Env-A1300 or Env-A 1400.	Facility Wide	Env-A 1403.02(a)
5.	In accordance with Env-A 1403.02(b), all existing devices or processes in operation after the transition period ending three years from May 8, 1998 (May 8, 2001), shall comply with Env-A 1400. Env-A 1300 will no longer be in effect.	Facility Wide	Env-A 1404.02(b)
6.	The owner of an existing device or process requiring a permit under chapter Env-A 1400, shall submit to the DES no later than one year prior to the end of the transition period (May 8, 2000), an application for a modification to a Title V permit in accordance with Env-A 609.18, and a request to the DES to perform air-dispersion modeling.	Facility Wide	Env-A 1405.02

Table 3 – State-only Enforceable Operational and Emissions Limitations

Item #	Applicable Requirements	Applicable Emission Units	Regulatory Cite
7.	In accordance with Env-A 1405.03 the owner of an existing device or process requiring a permit under Env-A 1300 shall submit to the DES no later than one year prior to the end of the transition period (May 8, 2000), a compliance plan identifying how the device or process will comply with chapter Env-A 1400 by the end of the transition period. The compliance plan shall contain the dates when the information required in Env-A 1405.02 will be filed with the DES.	Facility Wide	Env-A 1405.03
8.	In accordance with Env-A 1406.01 the owner of any device or process, which emits a regulated toxic air pollutant shall determine compliance with the ambient air limits by using one of the methods provided in Env-A 1406.02, Env-A 1406.03, or Env-A 1406.04. Upon request, the owner of any device or process, which emits a regulated toxic air pollutant, shall provide documentation of compliance with the ambient air limits to the DES. In accordance with Env-A 1404.01(d), documentation for the demonstration of compliance shall be retained at the site, and shall be made available to the DES for inspection.	Facility Wide	Env-A 1406.01 & Env-A 1404.01(d)
9.	Operating and emissions limitations for antimony trioxide ⁵ : The operating hours shall be limited to 365 days during any consecutive 12-month period at an emission rate of 0.0036 lb/hr per consecutive 24-hour period or to an emission rate of 0.032 lb/hr per consecutive 18 hour period.	EU06	Env-A 1400
10.	The facility shall comply with the emissions limitations specified in Table 1450-1 for phenol and formaldehyde by May 8, 2001 ⁶ .	Facility Wide	Env-A 1450

⁵ The facility may make adjustments to parameters that affect air dispersion modeling analysis conducted by DES on July 27, 2000 in order to demonstrate that alternative emission limitations can be established which would demonstrate compliance with the 24-hour and annual AAL's for the RTAP. Any adjustments to parameters which affect the air dispersion modeling analysis conducted by DES on July 27, 2000 and which result in new modeled impacts shall be reported to DES. DES shall then notify the facility in writing of any revised emission limitation as a result of such adjustments. Such written notification shall be attached to this Title V Operating Permit as an addendum. The revised emission limit will be incorporated into this Permit upon re-issuance.

⁶ The facility may make adjustments to process parameters which would provide compliance with the 24-hour and annual AAL's for phenol and formaldehyde. Any adjustments to process parameters which may affect compliance with the 24-hour and annual AAL's for phenol and formaldehyde will require air dispersion modeling analysis. The results of the new modeled impacts shall be reported to DES. DES shall then notify the facility in writing of any revised emission limitation as a result of such adjustments. Such written notification shall be attached to this Title V Operating Permit as an addendum. The revised emission limit(s) will be incorporated into this Permit upon re-issuance.

Table 3 – State-only Enforceable Operational and Emissions Limitations

Item #	Applicable Requirements	Applicable Emission Units	Regulatory Cite																
11.	<p>The owner or operator is permitted to add specification used oil generated at the facility to the #6 fuel oil storage tank for use as fuel under the following conditions:</p> <p>a) The owner or operator shall blend and burn only specification used oil at a maximum of 50% by volume with virgin #6 fuel oil and having the following allowable maximum limits of contaminants,:</p> <table><tr><td>Arsenic</td><td>5.0 mg/l* maximum</td></tr><tr><td>Cadmium</td><td>2.0 mg/l* maximum</td></tr><tr><td>Chromium</td><td>10 mg/l* maximum</td></tr><tr><td>Lead</td><td>100 mg/l* maximum</td></tr><tr><td>Halogens as HCl</td><td>1000 mg/l* maximum</td></tr><tr><td>PCBs</td><td>Less than 2 mg/l*</td></tr><tr><td>Flash Point</td><td>100 °F minimum</td></tr><tr><td>Sulfur</td><td>2.0% by weight</td></tr></table> <p>b) The used oil shall not otherwise exhibit any hazardous waste characteristics specified in Env-Wm 403. The used oil shall not be mixed with hazardous waste;</p> <p>c) The minimum amount of specification used oil that can be added to the storage tank at any one time is 55 gallons; and</p> <p>d) A maximum of 660 gallons of specification used oil is permitted to be combined with #6 fuel oil during any consecutive 365-day period.</p> <ul style="list-style-type: none">- dry weight basis <p>If any contaminant exceeds the maximum allowable limit listed in a) above, the used oil does not meet the definition of specification used oil and can not be blended with virgin #6 fuel oil or burned for fuel.</p>	Arsenic	5.0 mg/l* maximum	Cadmium	2.0 mg/l* maximum	Chromium	10 mg/l* maximum	Lead	100 mg/l* maximum	Halogens as HCl	1000 mg/l* maximum	PCBs	Less than 2 mg/l*	Flash Point	100 °F minimum	Sulfur	2.0% by weight	Facility Wide	Env-A 1400
Arsenic	5.0 mg/l* maximum																		
Cadmium	2.0 mg/l* maximum																		
Chromium	10 mg/l* maximum																		
Lead	100 mg/l* maximum																		
Halogens as HCl	1000 mg/l* maximum																		
PCBs	Less than 2 mg/l*																		
Flash Point	100 °F minimum																		
Sulfur	2.0% by weight																		

B. Federally Enforceable Operational and Emissions Limitations

The Permittee shall be subject to the Federally enforceable operational and emission limitations identified in Table 4 below:

Table 4 – Federally Enforceable Operational and Emissions Limitations

Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
1.	Visible Emission Standard for Fuel Burning Devices. No owner or operator shall cause or allow average opacity from fuel burning device installed after May 13, 1970 in excess of 20 percent for any continuous 6-minute period in a 60-minute period.	EU01	Env-A 2003.02
2.	Visible Emission Standard for Fuel Burning Devices. No owner or operator shall cause or allow average opacity from fuel burning device installed on or prior to May 13, 1970 in excess of 40 percent for any continuous 6-minute period in a 60-minute period.	EU02	Env-A 2003.01
3.	Visible Emission Standard for Process, Manufacturing and Service-based Industries. No owner or operator shall cause or allow visible fugitive emissions or visible stack emissions for any process, manufacturing or service based industry to exceed an average of 20 percent opacity for any continuous 6-minute period in a 60-minute period.	Facility Wide	Env-A 2107.01

Table 4 – Federally Enforceable Operational and Emissions Limitations

Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
4.	<p>No owner or operator shall cause or allow emissions of particulate matter from fuel burning devices installed after May 13, 1970 but before January 1, 1985 in excess of the rates set forth below, where:</p> <p>For devices with I (maximum gross heat input rate in 10⁶ BTU/hr) equal to or greater than 10 but less than 250, E (the maximum allowable particulate matter emission rate in lb/10⁶ BTU), shall be calculated by raising I to the -0.234 power, and multiplying the result by 1.028, expressed mathematically in the formula below:</p> $E = 1.028 * I^{-0.234}$	EU01	Env-A 2003.07(c)(2)
5.	<p>No owner or operator shall cause or allow emissions of particulate matter from fuel burning devices installed on or prior to May 13, 1970 in excess of the rates set forth below, where:</p> <p>For devices with I (maximum gross heat input rate in 10⁶ BTU/hr) equal to or greater than 10 but less than 10,000, E (the maximum allowable particulate matter emission rate in lb/10⁶ BTU), shall be calculated by raising I to the -0.166 power, and multiplying the result by 0.88, expressed mathematically in the formula below:</p> $E = 0.88 * I^{-0.166}$	EU02	Env-A 2003.06(b)(2)
6.	<p>No owner or operator shall cause or allow emissions of particulate matter from any process, manufacturing or service based industry in excess of the rates calculated in a) or b) below:</p> <p>Where: <i>p</i> = process weight rate in tons per hour; and <i>E</i> = maximum allowable particulate emission rate in pounds per hour.</p> <p>a) For an “Existing Device”⁷ with a process weight rate up to 60,000 lb/Hr:</p> $E = 5.05 * p^{0.67}$ <p>b) For a “New Device”⁸ with a process weight rate up to 60,000 lb/Hr:</p> $E = 4.10 * p^{0.67}$	EU03, EU04, EU05, EU06, & EU07	Env-A 2103.02
7.	Gaseous fuels shall contain no more than 5 grains of sulfur per 100 cubic feet of gas, calculated as hydrogen sulfide at standard temperature and pressure.	Facility Wide	40 CFR 52 ⁹
8.	The sulfur content of No. 6 fuel oil and the specification used oil generated at the facility shall not exceed 2.0 percent sulfur by weight.	EU01 & EU02	Env-A 1604.01(c)(2)
9.	The SO ₂ emissions for EU02 shall be limited to 39 tons per consecutive 12-month period.	EU02	RSA 125-C:6, RSA 125-C:11 & Env-A 606.04

⁷ “Existing device” is defined as a device installed prior to or on February 18, 1972.

⁸ “New Device” is defined as a device installed after February 18, 1972.

⁹ Env-A 402.03, effective December 27, 1990 was adopted as part of the State Implementation Plan (SIP) on September 14, 1992 and is considered federally enforceable until such time as the SIP is amended and approved by EPA.

Table 4 – Federally Enforceable Operational and Emissions Limitations

Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
10.	<p>In order to comply with the National Ambient Air Quality Standards (NAAQS) for sulfur dioxide (SO₂):</p> <ul style="list-style-type: none"> a) EU01 is limited to 167.33 gallons of #6 fuel oil or #6 fuel oil/specification used oil mix during any consecutive 60-minute period; b) EU02 is limited to 97.33 gallons of #6 fuel oil or #6 fuel oil/specification used oil mix during any consecutive 60-minute period; c) EU02 is limited to 20,700 gallons of #6 fuel oil or #6 fuel oil/specification used oil mix during any consecutive 30-day period; d) EU02 is limited to 248,407 gallons of #6 fuel oil or #6 fuel oil/specification used oil mix during any consecutive 12-month period; and e) EU01 and EU02 are limited to 566,000 gallons of #6 fuel oil or #6 fuel oil/specification used oil mix during any consecutive 12-month period for EU01 and EU02 combined. 	EU01 & EU02	RSA 125-C:6, RSA 125-C:11 & Env-A 606.04
11.	<p>The Permittee has accepted a facility wide NO_x limit of 273 pounds per consecutive 24-hour period on a 365-day rolling average corresponding to 49.8 tons during any consecutive 12-month period. By limiting facility wide NO_x emission to less than 50 tons during any consecutive 12-month period, the Permittee will stay below the applicability threshold of Env-A 1211.02(n). Actual facility wide NO_x emissions shall be calculated using Formulas #1, #2, and #3 below.</p>	Facility Wide	Env-A 1211.02(n)
12.	<p>Those processes applying a coating to any non-woven or fibrous substrate including fabric, shall be limited at all times to an emission rate of 0.35kg/l (2.9 lb VOC/gallon) of coating as applied, excluding water and exempt compounds.</p>	Facility Wide	Env-A 1204.10(c)
13.	<p>Accidental Release Program Requirements.</p> <p>The quantities of regulated chemicals stored at the facility are less than the applicable threshold quantities established in 40 CFR 68.130. Administrative controls will be established in order to ensure that inventories of regulated substances are maintained below the specified threshold quantities. The facility is subject to the Purpose and General Duty clause of the 1990 Clean Air Act, Section 112(r)(1). General Duty includes the following responsibilities:</p> <ul style="list-style-type: none"> a) Identify potential hazards which result from such releases using appropriate hazard assessment techniques; b) Design and maintain a safe facility; c) Take steps necessary to prevent releases; and d) Minimize the consequences of accidental releases which do occur. <p>If, in the future, the facility wishes to store quantities of high risk regulated substances above the threshold levels, an emergency response plan shall be submitted to the DES prior to exceeding threshold quantity limits. This plan shall include the information listed in 40 CFR Part 68, Subpart E.</p>	Facility Wide	1990 CAAA Section 112(r)(1) & 40 CFR 68

The Permittee shall use the following formulas, calculated on a rolling 12-month basis to verify compliance with the NO_x emissions limitations specified in Table 4, Item 11 of this Permit:

Formula #1: Facility Wide 12-month Rolling NO_x Emissions¹⁰

$$NOx_{Facility} = [NOx_{(Boilers)} + NOx_{(Dryers)}] + [P11mt]$$

Where:

$NOx_{(Facility)}$ =	Actual facility wide NO _x emissions (in TPY);
$NOx_{(Boilers)}$ =	Actual NO _x emissions from the EU01 & EU02 using Formula #2;
$NOx_{(Dryers)}$ =	Actual NO _x emissions from EU03, EU04, EU05, EU07, EU08 and all other insignificant activities using Formula #3;
$P11mt$ =	Sum of the previous 11 months combined actual NO _x emissions from EU01, EU02, EU03, EU04, EU05, EU07 & EU08 and all other insignificant activities.

Formula #2: Monthly NO_x Emissions from Boilers¹¹

$$NOx_{(Boilers)} = (BO \times 55.0 \text{ lb/kGal}) \times (1 \text{ ton} / 2000 \text{ lb})$$

Where:

BO =	Combined actual boiler (EU01 & EU02) no. 6 fuel oil and specification waste oil usage (in kGal) per month;
$kGal$ =	1,000 gallons of fuel oil;
55.0 lb/kGal =	AP-42 emission factor for residual fuel oil.

Formula #3: Monthly NO_x Emissions from Gas Dryers and Insignificant Activities¹²

$$NOx_{(Dryers)} = \left(\sum_{i=1} x_i \times 14.0 \text{ lb/kGal} \right) \times (1 \text{ ton} / 2000 \text{ lb})$$

Where:

i =	Emission Unit # which uses LPG (including all insignificant activities at the facility for this calculation, including but not limited to; emergency generators, small boilers, space heaters, dryers etc.);
X_i =	Actual LPG fuel usage for Emission Unit # (in kGal) per month;
14.0 lb/kGal =	AP-42 emission factor for LPG.

C. Emission Reductions Trading Requirements

The Permittee did not request emissions reduction trading in its operating permit application. At this point, DES has not included any permit terms authorizing emissions trading in this Permit.

¹⁰ Actual facility wide NO_x emissions for verification of compliance with the NO_x RACT Rule [Env-A 1211.02(m)].

¹¹ Actual NO_x emissions from EU01 and EU02 for verification of compliance with the NO_x RACT Rule [Env-A 1211.02(m)], shall be determined by using the appropriate EPA AP-42 NO_x emission factor for no. 6 fuel oil.

¹² Actual NO_x emissions from EU03, EU04, EU05, EU07, EU08, and all other insignificant activities for verification of compliance with the NO_x RACT rule [Env-A 1211.02(m)], shall be determined by using the appropriate EPA AP-42 NO_x emission factors for LP gas.

All emission reductions trading must be authorized under the applicable requirements of either Env-A 3000 (the “Emissions Reductions Credits (or ERCs) Trading Program”) or Env-A-3100 (the “Discrete Emissions Reductions [or DERs] Trading Program”) and 42 U.S.C. §7401 et seq. (The “Act”), and must be provided for in this Permit.

D. Monitoring and Testing Requirements

The Permittee is subject to the monitoring and testing requirements as contained in Table 5 below:

Table 5 – Monitoring and Testing Requirements					
Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
1.	Allows adequate dispersion of HAPs and other regulated pollutants	The Permittee shall conduct an annual visual inspections of each stack, spray booth, process and fuel burning device unit. Annual inspections shall include a thorough inspection of the condition of each stack exterior, fuel burning device and process and be focused on identifying any holes, leaks, deposits, deficiencies, or deterioration of equipment and stacks. Every five (5) years, the Permittee shall inspect the interior of each stack for evidence of corrosion, cracks or holes. Records of inspections and subsequent maintenance conducted as a result of the annual inspections, shall be kept on file at the Facility for review by the DES and/or EPA upon request.	Annually	Facility stacks, fuel burning devices and processes	Env-A 806.01(4) & 40 CFR 70.6(a)(3) Federally Enforceable
2.	Opacity Measurement	Opacity measurements shall be conducted following the procedures set forth in 40 CFR Part 60, Appendix A, Method 9, VISUAL DETERMINATION OF THE OPACITY OF EMISSIONS FROM STATIONARY SOURCES. The opacity measurements shall be taken over 60 minutes during normal operation of the device.	As needed	EU01, EU02, EU03, EU04, EU05, EU07 & EU08	Env-A 810.03 Federally Enforceable
3.	Opacity Measurement	Opacity measurements shall be conducted following the procedures set forth in 40 CFR Part 60, Appendix A, Method 22, VISUAL DETERMINATION OF FUGITIVE EMISSIONS FROM MATERIAL SOURCES AND SMOKE EMISSIONS FROM FLARES. The opacity measurements shall be taken over 60 minutes during normal operation of the device. If visible fugitive emissions are detected, opacity measurements shall be conducted following the procedures set forth in 40 CFR Part 60, Appendix A, Method 9, VISUAL DETERMINATION OF THE OPACITY OF EMISSIONS FROM STATIONARY SOURCES. The opacity measurements shall be taken over 60 minutes during normal operation of the device.	As needed	EU03, EU04, EU05, EU07 & EU08	Env-A 810.03 Federally Enforceable
4.	Sulfur content of liquid fuels	The Permittee shall retain delivery tickets or conduct testing in accordance with appropriate ASTM test methods which certify the weight-percent of sulfur for each delivery of the #6 fuel oil and for each drum of specification waste oil to determine compliance with the sulfur content limitation provisions specified in this Permit for liquid fuels.	For each delivery of fuel oil to the facility	EU01 & EU02	40 CFR 60.42c(h) & Env-A 809.01 Federally Enforceable

Table 5 – Monitoring and Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
5.	Sulfur content of gaseous fuels	The Permittee shall conduct testing to determine compliance with the sulfur content limitations provisions in Env-A 1600 for gaseous fuels.	Upon written request by EPA or DES	EU03, EU04, EU05, EU07 & EU08	Env-A 809.02 Federally Enforceable
6.	HAP content of liquid fuels	The Permittee shall conduct testing in accordance with appropriate ASTM methods on each 55 gallon drum of used oil generated at the source, to determine compliance with the used oil specification limitation provisions specified in Table 3 of this Permit.	For each 55 gallon drum of waste oil generated	EU01 & EU02	Env-Wm 807.(b)(5) State-only Enforceable
7.	Fuel Consumption	Non-resettable fuel flow meters/recorders will be installed and continuously operated on the fuel lines of each Cleaver Brooks boiler to monitor individual fuel oil usage. Records of hourly fuel use shall be recorded in a permanently bound log-book.	Daily	EU01 & EU02	Env-A 806 & 40 CFR 70.6 (a)(3)(i)(B) Federally Enforceable
8.	Fuel Consumption	The LPG flow meters/recorders will be continuously operated to monitor LPG usage.	Continuously	EU03, EU04, EU05, EU07 & EU08	Env-A 806 & 40 CFR 70.6 (a)(3)(i)(B) Federally Enforceable
9.	Periodic Monitoring	Calibration of the fuel metering devices shall be conducted at a frequency in accordance with manufacturers specifications and following manufacturer's recommended procedures or shall occur at least once annually or in a manner and/or frequency approved by the Division (whichever is more stringent). Manufacturers specifications/procedures shall be kept on file and made available to DES and/or EPA on request.	Annually	EU01, EU02, EU03, EU04, EU05, EU07 & EU08	Env-A 806 & 40 CFR 70.6(a)(3) Federally Enforceable
10.	VOC Content of compliant coatings	When compliance is by low VOC coatings, the VOC content and applicable physical properties shall be determined using 40 CFR Part 60, Appendix A, Method 24 at a 1-hour bake time. Coating manufacturer's test results (as determined by Method 24) may be used by the facility to demonstrate compliance. If coating manufacturer's test results are used, then the Permittee shall ensure that these results are representative of each compliant coating as it is applied at the Facility. Results shall be presented as pounds of VOC per gallon of coating.	Upon use of VOC coatings subject to RACT or upon reformulation of any coating subject to RACT	Facility Wide	Env-A 803.03 Federally Enforceable

Table 5 – Monitoring and Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
11.	Preventive Maintenance	<p>Visually inspect and:</p> <ul style="list-style-type: none"> a) Replace the filter pad associated with EU06 (spray booth) as necessary in accordance with manufactures specifications during operation of the spray booth; b) Clean or replace spray nozzles as necessary in accordance with manufactures specifications during operation of the spray guns. The Permittee shall maintain a log indicating dates of spray nozzle replacement. Manufacturers specifications/procedures shall be kept on file and made available to DES and/or EPA on request. 	As needed	EU06	40 CFR 70.6(a)(3)(I) (B) Federally Enforceable

E. Recordkeeping Requirements

The Permittee shall be subject to the recordkeeping requirements identified in Table 6 below:

Table 6 – Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirements	Records Retention Requirement	Applicable Emission Unit	Regulatory Cite
1.	The Permittee shall retain records of all required monitoring data, recordkeeping and reporting requirements, and support information for a period of at least 5 years from the date of origination.	Retain for a minimum of 5 years	Facility Wide	40 CFR 70.6(a)(3)(ii)(B) Federally Enforceable
2.	<p>The Permittee shall maintain records of monitoring requirements as specified in Table 5 of this Permit including:</p> <ul style="list-style-type: none"> a) Preventive maintenance and inspection results for stacks, processes and emission units; b) Summary of results of any opacity measurements conducted as specified in Items 2 and 3 of Table 5; c) Summary of maintenance, calibration and repair records of the fuel oil metering devices; d) Summary of maintenance, calibration and repair records of the LPG metering devices; and e) Inspection and monitoring results for the spray booth (EU06). 	Maintain on a continuous basis	Facility Wide	40 CFR 7.6(a)(3)(iii)(A) Federally Enforceable

Table 6 – Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirements	Records Retention Requirement	Applicable Emission Unit	Regulatory Cite
3.	<p>Delivery tickets from each fuel oil supplier for each shipment of fuel oil received shall be kept on file in a form suitable for inspection and shall be available to the DES and/or EPA upon request. Each delivery ticket shall indicate:</p> <ul style="list-style-type: none"> a) The name of the fuel supplier; b) The address of the fuel supplier; c) The telephone number of the fuel supplier; d) The quantity of fuel oil delivered, and e) The percent sulfur by weight of the fuel oil being delivered. <p>If delivery tickets do not contain sulfur content of fuel being delivered, the Permittee shall perform testing in accordance with appropriate ASTM test methods to determine compliance with the sulfur content limitation provisions in Env-A 1604.01(c)(2) for liquid fuels.</p> <p>The Permittee shall perform testing on the specification waste oil in accordance with appropriate ASTM test methods to determine compliance with the sulfur content limitation provisions in Env-A 1604.01(c)(2) for liquid fuels. The test results shall be reported in weight percent on a dry basis and kept in accordance with Table 6, Item 4 a) through f).</p>	Maintain on a continuous basis	EU01 & EU02	40 CFR 70.6(a)(3) Federally Enforceable
4.	<p>Test results for each 55 gallon drum of used oil shall be kept on file in a form suitable for inspection and shall be available to the DES and/or EPA upon request. Each record shall indicate:</p> <ul style="list-style-type: none"> a) The name of the analytical laboratory; b) The address of the analytical laboratory; c) The telephone number of the analytical laboratory; d) The analytical methods used for determination of g) 1) to 8); e) The volume of used oil in the drum tested; f) The reason for rejection of any used oil; g) The concentrations¹³ of each of the following in the specification used oil being combined with #6 fuel oil in the storage tank reported on a dry basis where applicable: <ul style="list-style-type: none"> 1) Lead in mg/L; 2) Arsenic in mg/L; 3) Cadmium in mg/L; 4) Chromium in mg/L; 5) Halogens as HCl in mg/L; 6) PCBs in mg/L; and 7) Flash point. h) The volume of virgin #6 fuel oil contained in the storage tank at the time of mixing with specification used oil; i) The volume of specification used oil added to the fuel oil storage tank; and j) The calculated percent concentration of specification used oil by volume in the storage tank after addition. 	Maintain on a continuous basis	Facility Wide	Env-Wm 807.02 State-only Enforceable

¹³ Concentrations of lead, arsenic, cadmium, chromium, halogens as HCl and PCBs shall be reported on a dry weight basis.

Table 6 – Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirements	Records Retention Requirement	Applicable Emission Unit	Regulatory Cite
5.	<p>The Permittee shall record monthly LPG fuel usage information including:</p> <ul style="list-style-type: none"> a) The quantity of fuel used daily during a continuous 30-day period; b) The fuel type; and c) The calculated MMBTU/gallon of fuel. <p>If more than one type of fuel is used, data on each fuel shall be recorded separately.</p>	Maintain on a continuous basis	Facility Wide	Env-A 901.03 Federally Enforceable
6.	<p>The Permittee shall record fuel oil usage information in a bound logbook, including:</p> <ul style="list-style-type: none"> a) The quantity of fuel used on a consecutive 24-hour basis; b) The quantity of fuel used during a consecutive 30-day period; c) The fuel type; d) The amount of specification used oil in percent; e) The calculated MMBTU/gallon of fuel; and f) The sulfur content as percent sulfur by weight of fuel. <p>If more than one type of fuel is used, data on each fuel shall be recorded separately.</p>	Maintain on a continuous basis	EU01 & EU02	Env-A 901.03 Federally Enforceable
7.	<p>Daily records shall be kept regarding process operations including the following information for each process:</p> <ul style="list-style-type: none"> a) Hours of operation for each process or device; b) Total quantity of raw materials used; c) Records of process weights; d) The number of hours of operation corresponding to the process weight quantities; and e) Distribution of the process discharges if the process discharges air pollutants through more than one discharge point. 	Maintain on a continuous basis	Facility Wide	Env-A 901.04 Federally Enforceable
8.	Annual records of actual emissions for each significant and insignificant activity for determination of emission based fees.	Maintain at facility at all times	Significant and insignificant activities	Env-A 901.04 Federally Enforceable
9.	Record whenever the filter pad in the spray booth (EU06) is changed in a permanently bound logbook. These records shall be made available to the DES and/or EPA upon request.	Maintain at facility at all times	PCE01	40 CFR 70.6(a)(3)(i)(B) Federally Enforceable

Table 6 – Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirements	Records Retention Requirement	Applicable Emission Unit	Regulatory Cite
10.	<p>VOC Recordkeeping Requirements:</p> <p>For each VOC emitting device, or process, the following information shall be recorded and maintained:</p> <ul style="list-style-type: none"> a) Facility information, including: <ul style="list-style-type: none"> 1) Source name; 2) Source identification; 3) Physical address; and 4) Mailing address. b) Identification of each VOC-emitting device or process, except: <ul style="list-style-type: none"> 1) Processes or devices associated with non-core activities, as defined in Env-A 1204.03; and 2) Processes or devices emitting only exempt VOC. c) Operating schedule information for each VOC-emitting device or process identified in b), above, including: <ul style="list-style-type: none"> 1) Days per calendar week during the normal operating schedule; 2) Hours per day during the normal operating schedule and for a typical ozone season day, if different from the normal operating schedule; and 3) Hours per year during the normal operating schedule. d) The following VOC emission data: <ul style="list-style-type: none"> 1) Annual theoretical potential emissions, and actual VOC emissions using the VOC content for the calculation year for each VOC-emitting device or process identified in b) above, for: <ul style="list-style-type: none"> (i) Each year, in tons per year; and (ii) A typical day during the high ozone season of each year, in pounds per day. 2) Actual VOC emissions from each VOC-emitting device or process identified in b) above for: <ul style="list-style-type: none"> (i) Each year, in tons per year; and (ii) A typical day during the high ozone season of each year, in pounds per day. 3) Applicable emission factors, if used, to calculate emissions. 	Monthly and rolling consecutive 12 month basis	Facility Wide	Env-A 901.06 Federally Enforceable

Table 6 – Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirements	Records Retention Requirement	Applicable Emission Unit	Regulatory Cite
11.	<p>VOC Recordkeeping Requirements (cont.):</p> <p>For all surface coating and dying operations, the following information shall be recorded and maintained:</p> <ul style="list-style-type: none"> a) Coating and dye formulation and analytical data, as follows: <ul style="list-style-type: none"> 1) Supplier; 2) Name and color (if applicable); 3) Type; 4) Identification number; 5) Density described as lbs/gallon; 6) Total volatiles content described as weight percent; 7) Water content described as weight percent; 8) Exempt solvent content described as weight percent; 9) VOC content described as weight percent; 10) Solids content described as volume percent; 11) Diluent name and identification number; 12) Diluent solvent density described as lb/gallon; 13) Diluent VOC content described as weight percent; 14) Diluent exempt solvent content described as weight percent; 15) Volume of diluent VOC described as gallons; and 16) Diluent/solvent ratio described as gallon diluent solvent per gallon coating. b) Coating and dye consumption data, including records of total annual and typical high ozone season day throughput, in gallons consumed, of each coating or dye formulation provided in compliance with a) above, for each coating line or dye line. c) Process information for each coating line and dye process identified in 10. b) above, for both the normal operating schedule and for a typical high ozone season day, if different from the normal operating schedule, including: <ul style="list-style-type: none"> 1) Method of application; 2) Number of coats for coating operation; 3) Drying method; and 4) Substrate type and form. 	Monthly and rolling consecutive 12 month basis	Facility Wide	Env-A 901.06 Federally Enforceable

Table 6 – Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirements	Records Retention Requirement	Applicable Emission Unit	Regulatory Cite
12.	<p>NOx Recordkeeping Requirements:</p> <p>For fuel burning devices, including boilers, and internal combustion engines, the following information shall be recorded and maintained:</p> <ul style="list-style-type: none"> a) Facility information, including: <ul style="list-style-type: none"> 1) Source name; 2) Source identification; 3) Physical address; and 4) Mailing address. b) Identification of each fuel burning device; c) Operating schedule information for each fuel burning device identified in b), above, including: <ul style="list-style-type: none"> 1) Days per calendar week during the normal operating schedule; 2) Hours per day during the normal operating schedule and for a typical ozone season day, if different from the normal operating schedule; and 3) Hours per year during the normal operating schedule. d) Type, and amount of fuel burned, for each fuel burning device, during normal operating conditions and for a typical ozone season day, if different from normal operating conditions, on an hourly basis in million BTU's per hour, and; e) The following NOx emission data, including records of total annual emissions, in tons per year, and typical ozone season day emissions, in pounds per day: <ul style="list-style-type: none"> 1) Theoretical potential emissions for the calculation year for each fuel burning device; and 2) The actual NOx emissions for each fuel-burning device. 	On a continuous basis	Facility Wide	Env-A 901.08 Federally Enforceable

F. Reporting Requirements

The Permittee shall be subject to the reporting requirements identified in Table 7 below:

Table 7 – Applicable Reporting Requirements				
Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Cite
1.	<p>The Permittee shall submit a permit deviation/monitoring report of the data specified in Table 5 of this Permit every 6 months. All required reports must be certified by a responsible official consistent with 40 CFR 70.5(d). The report shall contain a summary of the following information:</p> <ul style="list-style-type: none"> a) Preventive maintenance and inspection results for stacks, process and emission units; b) Summary of results of any opacity measurements conducted; c) Summaries of testing and/or delivery ticket certifications for liquid fuel sulfur content; d) Summaries of testing certifications of hazardous constituent content for specification used oil; e) Summary of maintenance, calibration and repair records of the fuel oil metering devices; f) Summary of maintenance, calibration and repair records of the LPG metering devices; and g) All instances of deviations from Permit requirements must clearly be identified. 	Semiannually (by July 31 st and January 31 st of each calendar year)	Facility Wide	40 CFR 70.6(a)(3)(iii)(A) Federally Enforceable
2.	The Permittee shall submit an annual fuel usage report indicating consecutive 24-hour and consecutive 12-month rolling totals of fuel utilization for EU01 & EU02 and corresponding fuel information as outlined in Condition VIII. E., Table 6 Item 6.	Annually (no later than April 15 th of the following year)	EU01 & EU02	Env-A 901.09 Federally Enforceable
3.	The Permittee shall submit an annual fuel usage report indicating consecutive 30-day period and consecutive 12-month rolling totals of fuel utilization for each of the LPG burning equipment and corresponding fuel information as outlined in Condition VIII. E, Table 6, Item 5.	Annually (no later than April 15 th of the following year)	Facility Wide	Env-A 901.09 Federally Enforceable
4.	<p>VOC Reporting Requirements:</p> <p>For all processes, the owner or operator shall submit to the Director, annually (no later than April 15th of the following year), reports of the data required by Condition VIII.E, Table 6, Items 10 & 11.</p>	Annually (no later than April 15 th of the following year)	Facility Wide	Env-A 901.07 Federally Enforceable
5.	<p>NOx Reporting Requirements:</p> <p>For fuel burning devices, including boilers, and engines, as well as miscellaneous sources, the owner or operator shall submit to the Director, annually (no later than April 15th of the following year), reports of the data required by Condition VIII.E, Table 6, Item 12.</p>	Annually (no later than April 15 th of the following year)	Facility Wide	Env-A 901.09 Federally Enforceable

Table 7 – Applicable Reporting Requirements

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Cite
6.	Prompt reporting of deviations from Permit requirements including those attributed to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventative measures taken shall be conducted in accordance with Section XXVIII of this Permit.	Prompt reporting (within 24 hours of an occurrence)	Facility Wide	40 CFR 70.6(a)(3)(iii)(B) Federally Enforceable
7.	Any report submitted to the DES and/or EPA shall include the certification of accuracy statement outlined in Section XXI.B. of this Permit and shall be signed by the responsible official.	As specified in section XXI.B.	Facility Wide	40 CFR 70.6(c)(1) Federally Enforceable
8.	Annual reporting and payment of emission based fees for pollutants, including but not limited to SO ₂ , NO _x , CO, TSP, and VOCs, shall be conducted in accordance with Section XXIII of this Permit.	Annually (no later than April 15 th of the following year)	Facility Wide	Env-A 704.03 Federally Enforceable
9.	Annual report of the actual emissions speciated by individual RTAP including a breakdown of VOC emissions by compound.	Annually (no later than April 15 th of the following year)	Facility Wide	Env-A 907.01 ¹⁴ (new rule) State-only Enforceable
10.	Annual compliance certification shall be submitted in accordance with Section XXI of this Permit.	Annually (no later than April 15 th of the following year)	Facility Wide	40 CFR 70.6(c)(1) Federally Enforceable

IX. Requirements Currently Not Applicable

Requirements not currently applicable to the Facility were not identified by the Permittee.

General Title V Operating Permit Conditions

X. Issuance of a Title V Operating Permit

This Permit is issued in accordance with the Provisions of Part Env-A 609. In accordance with 40 CFR 70.6(a)(2) this Permit shall expire on the date specified on the cover page of this Permit, which shall not be later than the date five (5) years after issuance of this Permit.

Permit expiration terminates the Permittees' right to operate the Permittees' emissions units, control equipment or associated equipment covered by this permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

¹⁴ The "New " Env-A 900 effective November 26, 1998, has not been adopted as part of the State Implementation Plan (SIP) and is considered State-only enforceable until such time as the SIP is amended and approved by EPA.

Pursuant to Env-A 609.02(b), this Permit shall be a State Permit to Operate as defined in RSA 125-C:11, III.

XI. Title V Operating Permit Renewal Procedures

Pursuant to Env-A 609.06(b), an application for renewal of this Permit shall be considered timely if it is submitted to the Director at least six months prior to the designated expiration date of this Permit.

XII. Application Shield

Pursuant to Env-A 609.07, if an applicant submits a timely and complete application for the issuance or renewal of a Permit, the failure to have a Permit shall not be considered a violation of this part until the Director takes final action on the application.

XIII. Permit Shield

Pursuant to Env-A 609.08(a), a permit shield shall provide that:

1. For any applicable requirement or any state requirement found in the New Hampshire Rules Governing the Control of Air Pollution specifically included in this Permit, compliance with the conditions of this Permit shall be deemed compliance with said applicable requirement or said state requirement as of the date of permit issuance; and
2. For any potential applicable requirement or any potential state requirement found in the New Hampshire Rules Governing the Control of Air Pollution specifically identified in this Title V Operating Permit Section IX Table 8, as not applicable to the stationary source or area source, the Permittee need not comply with the specifically identified federal or state requirements.

The permit shield identified in Section XIII of this Permit, shall apply only to those conditions incorporated into this Permit in accordance with the provisions of Env-A 609.08(b). It shall not apply to certain conditions as specified in Env-A 609.08(c) that may be incorporated into this Permit following permit issuance by DES.

If a Title V Operating Permit and amendments there to issued by the DES does not expressly include or exclude an applicable requirement or a state requirement found in the New Hampshire Rules Governing the Control of Air Pollution, that applicable requirement or state requirement shall not be covered by the permit shield and the Permittee shall comply with the provisions of said requirement to the extent that it applies to the Permittee.

If the DES determines that this Title V Operating Permit was issued based upon inaccurate or incomplete information provided by the applicant or Permittee, any permit shield provisions in said Title V Operating Permit shall be void as to the portions of said Title V Operating Permit which are affected, directly or indirectly, by the inaccurate or incomplete information.

Pursuant to Env-A 609.08(f), nothing contained in Section XIII of this Permit shall alter or affect the ability of the DES to reopen this Permit for cause in accordance with Env-A 609.18 or to exercise its summary abatement authority.

Pursuant to Env-A 609.08(g), nothing contained in this section or in any Title V Operating Permit issued by the DES shall alter or affect the following:

1. The ability of the DES to order abatement requiring immediate compliance with applicable requirements upon finding that there is an imminent and substantial endangerment to public health, welfare, or the environment;
2. The state of New Hampshire's ability to bring an enforcement action pursuant to RSA 125-C:15, II;
3. The provisions of section 303 of the Act regarding emergency orders including the authority of the EPA Administrator under that section;
4. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
5. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act;
6. The ability of the DES or the EPA Administrator to obtain information about a stationary source, area source, or device from the owner or operator pursuant to section 114 of the Act; or
7. The ability of the DES or the EPA Administrator to enter, inspect, and/or monitor a stationary source, area source, or device.

XIV. Reopening for Cause

The Director shall reopen and revise a Title V Operating Permit for cause if any of the circumstances contained in Env-A 609.18(a) exist. In all proceedings to reopen and reissue a Title V Operating Permit, the Director shall follow the provisions specified in Env-A 609.18(b) through (g).

XV. Administrative Permit Amendments

Pursuant to Env-A 612.01, the Permittee may implement the changes addressed in the request for an administrative permit amendment as defined in Part Env-A 100 immediately upon submittal of the request.

Pursuant to Env-A 612.01, the Director shall take final action on a request for an administrative permit amendment in accordance with the provisions of Env-A 612.01(b) and (c).

XVI. Operational Flexibility

Pursuant to Env-A 612.02(a), the Permittee subject to and operating under this Title V Operating Permit may make changes involving trading of emissions under this existing Title V Operating Permit at the permitted stationary source or area source without filing a Title V Operating Permit application for and obtaining an amended Title V Operating Permit, provided that all the conditions are met as specified in section XVI. A. 1. through 7. of this permit and a notice is submitted to the DES and EPA describing the intended changes. At this point, DES has not included any permit terms authorizing emissions trading in this permit.

1. The change is not a modification under any provision of title I of the Act;
2. The change does not cause emissions to exceed the emissions allowable under the Title V Operating Permit, whether expressed therein as a rate of emissions or in terms of total emissions;
3. The owner or operator has obtained any temporary permit required by Env-A 600;

4. The owner or operator has provided written notification to the director and administrator at least 15 days prior to the proposed change and such written notification includes:
 - a) The date on which each proposed change will occur;
 - b) A description of each such change;
 - c) Any change in emissions that will result and how this change in emissions will comply with the terms and conditions of the permit;
 - d) A written request that the operational flexibility procedures be used; and
 - e) The signature of the responsible official, consistent with Env-A 605.04(b).
5. The Title V Operating Permit issued to the stationary source or area source already contains terms and conditions including all terms and conditions which determine compliance required under 40 CFR 70.6(a) and (c) and which allow for the trading of emissions increases and decreases at the permitted stationary source or area source solely for the purpose of complying with a federally-enforceable emissions cap that is established in the permit independent of otherwise applicable requirements;
6. The owner or operator has included in the application for the Title V Operating Permit proposed replicable procedures and proposed permit terms which ensure that the emissions trades are quantifiable and federally enforceable for changes to the Title V Operating Permit which qualify under a federally- enforceable emissions cap that is established in the Title V Operating Permit independent of the otherwise applicable requirements; and
7. The proposed change complies with Env-A 612.02 (e).

Pursuant to Env-A 612.02(c), the Permittee subject to and operating under this Title V Operating Permit may make changes not addressed or prohibited by this existing Title V Operating Permit at the permitted stationary source or area source without filing a Title V Operating Permit application, provided that all the conditions specified in Env-A 612.02(c)(1) through (6) are met and a notice is submitted to the DES and EPA describing the intended changes.

Pursuant to Env-A 612.02(d), the Permittee, Operator, Director and Administrator shall attach each notice of an off-permit change completed in accordance with Section XVI of this Title V Operating Permit to their copy of the current Title V Operating Permit.

Pursuant to Env-A 612.02(e), any change under Section XVI shall not exceed any emissions limitations established under the New Hampshire Rules Governing the Control of Air Pollution, or result in an increase in emissions, or result in new emissions, of any toxic air pollutant or hazardous air pollutant other than those listed in the existing Permit.

Pursuant to Env-A 612.02(f), the off-permit change shall not qualify for the permit shield under Env-A 609.08.

XVII. Minor Permit Amendments

Pursuant to Env-A 612.04 and prior to implementing a minor permit modification, the Permittee shall submit a written request to the Director in accordance with the requirements of Env-A 612.04(b).

The Director shall take final action on the minor permit amendment request in accordance with the provisions of Env-A 612.04(c) through (g).

Pursuant to Env-A 612.04(g), the permit shield specified in Env-A 609.08 shall not apply to minor permit amendments under Section XVII. of this Permit.

Pursuant to Env-A 612.04(I), the Permittee shall be subject to the provisions of Part Env-A 614 and Part Env-A 615 if the change is made prior to the filing with the Director a request for a minor permit amendment.

XVIII. Significant Permit Amendments

Pursuant to Env-A 612.05, a change at the facility shall qualify as a significant permit amendment if it meets the criteria specified in Env-A 612.05(a)(1) through (7).

Prior to implementing the significant permit amendment, the Permittee shall submit a written request to the Director, which includes all the information as referenced in Env-A 612.05(b) and (c) and shall be issued an amended Title V Operating Permit from the DES. The Permittee shall be subject to the provisions of Env-A 614 and Env-A 615 if a request for a significant permit amendment is not filed with the Director and/or the change is made prior to the issuance of an amended Title V Operating Permit.

The Director shall take final action on the significant permit amendment in accordance with the Procedures specified in Env-A 612.05(d), (e) and (f).

XIX. Title V Operating Suspension, Revocation or Nullification

Pursuant to RSA 125-C:13, the Director may suspend or revoke any final permit issued hereunder if, following a hearing, the Director determines that:

1. The Permittee has committed a violation of any applicable statute or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution, order or permit condition in force and applicable to it; or
2. That the emissions from any device to which this Permit applies, alone or in conjunction with other sources of the same pollutants, presents an immediate danger to the public health.

The Director shall nullify any Permit if, following a hearing in accordance with RSA 541-A:30, II, a finding is made that the Permit was issued in whole or in part based upon any information proven to be intentionally false or misleading.

XX. Inspection and Entry

Pursuant to Env-A 614.01, EPA and DES personnel shall be granted access to the facility covered by this Permit, in accordance with RSA 125-C:6,VII, for the purposes of: inspecting the proposed or permitted site; investigating a complaint; and assuring compliance with any applicable requirement or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution and/or conditions of any Permit issued pursuant to Chapter Env-A 600.

XXI. Certifications

A. Compliance Certification Report

In accordance with 40 CFR 70.6(c) the Responsible Official shall certify for the previous calendar year that the facility is in compliance with the requirements of this permit. The report shall be

submitted annually, no later than April 15th of the following year. The report shall be submitted to the DES and to the U.S. Environmental Protection Agency - Region I. The report shall be submitted in compliance with the submission requirements below.

In accordance with 40 CFR 70.6(c)(5), the report shall describe:

- 1) The terms and conditions of the Permit that are the basis of the certification;
- 2) The current compliance status of the source with respect to the terms and conditions of this Permit, and whether the method was continuous or intermittent during the reporting period;
- 3) The methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
- 4) Any additional information required by the DES to determine the compliance status of the source.

B. Certification of Accuracy Statement

All documents submitted to the DES shall contain a certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in accordance with the requirements of 40 CFR 70.5(d) and contain the following language:

"I am authorized to make this submission on behalf of the facility for which the submission is made. Based on information and belief formed after reasonable inquiry, I certify that the statements and information in the enclosed documents are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

All reports submitted to DES (except those submitted as emission based fees as outlined in Section XXIII of this Permit) shall be submitted to the following address:

New Hampshire Department of Environmental Services
Air Resources Division
6 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095
ATTN: Compliance Bureau

All reports submitted to EPA shall be submitted to the following address:

Office of Environmental Stewardship
Director Air Compliance Program
United States Environmental Protection Agency
1 Congress Street
Suite 1100 (SEA)
Boston, MA 02114-2023
ATTN: Air Compliance Clerk

XXII. Enforcement

Any noncompliance with a permit condition constitutes a violation of RSA 125-C:15, and, as to the conditions in this permit which are federally enforceable, a violation of the Clean Air Act, 42 U.S.C. Section 7401 et seq., and is grounds for enforcement action, for permit termination or revocation, or for denial of an operating permit renewal application by the DES and/or EPA. Noncompliance may also be grounds for assessment of administrative, civil or criminal penalties in accordance with RSA 125-C:15 and/or the Clean Air Act. This Permit does not relieve the Permittee from the obligation to comply with any other provisions of RSA 125-C, the New Hampshire Rules Governing the Control of Air Pollution, or the Clean Air Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this Permit.

In accordance with 40 CFR 70.6 (a)(6)(ii), a Permittee shall not claim as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

XXIII. Emission Based Fee Requirements

The Permittee shall pay an emission-based fee annually for this facility as calculated each calendar year pursuant to Env-A 704.03.

The Permittee shall determine the total actual annual emissions from the facility to be included in the emission-based multiplier specified in Env-A 704.03(a) for each calendar year in accordance with the methods specified in Env-A 620.

The Permittee shall calculate the annual emission-based fee for each calendar year in accordance with the procedures specified in Env-A 704.03 and the following equation:

$$FEE = E * DPT * CPI * ISF$$

Where:

FEE =	The annual emission-based fee for each calendar year as specified in Env-A 704.
E =	The calculation of total annual emissions as specified in Env-A 704.02 and the provisions specified in Env-A 704.03(a).
DPT =	The dollar per ton fee the DES has specified in Env-A 704.03(b).
CPI =	The Consumer Price Index Multiplier as calculated in Env-A 704.03(c).
ISF =	The Inventory Stabilization Factor as specified in Env-A 704.03(d).

The Permittee shall contact the DES each calendar year for the value of the Inventory Stabilization Factor and for the value of the Consumer Price Index Multiplier.

The Permittee shall submit, to the DES, payment of the emission-based fee and a summary of the calculations referenced in Sections XXIII.B., and C of this Permit for each calendar year by October 15th of the following calendar year in accordance with Env-A 704.04. The emission-based fee and summary of the calculations shall be submitted to the following address:

New Hampshire Department of Environmental Services
Air Resources Division
6 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095
ATTN.: Emissions Inventory

The DES shall notify the Permittee of any under payments or over payments of the annual emission-based fee in accordance with Env-A 704.05.

XXIV. Duty to Provide Information

In accordance with 40 CFR 70.6 (a)(6)(v), upon the DES's written request, the Permittee shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Permittee shall furnish to the DES copies of records that the Permittee is required to retain by this Permit. The Permittee may make a claim of confidentiality as to any information submitted pursuant to this condition in accordance with Part Env-A 103 at the time such information is submitted to DES. DES shall evaluate such requests in accordance with the provisions of Part Env-A 103.

XXV. Property Rights

Pursuant to 40 CFR 70.6 (a)(6)(iv), this Permit does not convey any property rights of any sort, or any exclusive privilege.

XXVI. Severability Clause

Pursuant to 40 CFR 70.6 (a)(5), the provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstances is held invalid, the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

XXVII. Emergency Conditions

Pursuant to 40 CFR 70.6(g), the Permittee shall be shielded from enforcement action brought for noncompliance with technology based¹⁵ emission limitations specified in this Permit as a result of an

¹⁵ Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

emergency¹⁶. In order to use emergency as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;
2. The permitted facility was at the time being properly operated;
3. During the period of the emergency, the Permittee took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this Permit; and
4. The Permittee submitted notice of the emergency to the DES within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

XXVIII. Permit Deviations

In accordance with 40 CFR 70.6(a)(3)(iii)(B), the Permittee shall report to the DES all instances of deviations from Permit requirements, by telephone or fax, within 24 hours of discovery of such deviation. This report shall include the deviation itself, including those attributable to upset conditions as defined in the Permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said Permit deviation shall also be submitted in writing to the DES in the semiannual summary report of monitoring and testing requirements due July 31st and January 31st of each calendar year. Deviations are instances where any Permit condition is violated and has not already been reported as an emergency pursuant to Section XXVII of this Permit.

Reporting a Permit deviation is not an affirmative defense for action brought for noncompliance.

¹⁶ An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technology based limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operations, operator error or decision to keep operating despite knowledge of any of these things.